

Est'd Performance of C.C.A.F./C.C.N.A.F. Aircraft
FIGHTERS
 (Intercept Mission)

Aircraft and Engines	Fuel Wt.			Basic Performance Data			Speed at Ref. Height		Sortie Description	Combat Radius		Bomb-and-Weapons	Fire Control Electronics
	Int. lb.	Ext. lb.	Total lb.	All Up Weight lb.	Time to Ht. (Mils power) mins/ft	Combat Ceiling ft	Max Kts/ft	Cruise Kts/ft		With Internal fuel only	With External fuel only		
FACOT (MIG-15) One VK-1 5,940 lb SLST centrifugal flow turbojet	2,500	-	2,500	11,000	7.0/40,000 14.4/50,000	51,000	530/36,000 505/50,000	475/50,800	High level out and back with 5 minutes combat clean, with <u>internal fuel only</u>	330	-	Guns fixed forward. (One 37 mm and two 23 mm) Back	Lead pursuit, single channel VFR, IF, IFF, computer, Forward Beacon sight with receiver, Manual Range Finder, Radar, Altimeter
	2,500	900	3,400	12,000	8.4/40,000 11.4/45,000	50,300	530/36,000 500/50,000	475/49,450	With 2 x 450 lb tanks	-	495	bombs-2-x-550 lb.-in-lieu-of drop-tanks	
	2,500	1,400	3,900	12,600	9.9/40,000 13.7/45,000	49,900	530/36,000	475/48,600	With 2 x 700 lb drop tanks	-	572		
FRESCO C and FRESCO D (MIG-17) One VK-IF, 7,040 lbs.	2,500	-	2,500	11,880	8.5/40,000 13.8/50,000	54,500 46,500	560/36,000 550/50,000	505/50,200	High level out and back with 5 minutes combat, with <u>internal fuel only</u>	270	-	Guns fixed forward. FRESCO C: (One 37 mm and two 23 mm) FRESCO D: Three 23 mm	FRESCO C: single channel VFR, IF, IFF, computer, Forward Beacon sight with receiver, Manual Range Finder, Radar, Altimeter
	2,500	1,400	3,900	13,400	11.8/40,000 25.5/50,000	54,900 46,500	560/36,000 550/50,000	505/47,150	With 2 x 700 lb drop tanks	-	510	bombs-2-x-550 lb.-in-lieu-of drop tanks	FRESCO D: weather, pursuit, ch/track, radar and optical sight

(Remarks: SCAN CDD AI equipment is suitable for stern chase only attack and has a search capability of about 5 n.miles and an automatic track capability of about 2 n.miles. SCAN FTR has a range only capability of about 1 n.m.)

search
each
radar

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Tail warning Radar

Search back radar

FARMER (MIG-19) Max. RDE 9,750 lb. SLST Fuel flow Turbo jets Reheat to 7,150 lbs.	3,950	-	3,950	17,000	5.0/40,000	54,500	750/25,000	515/44,100	High level out and back with 5 minutes combat with internal fuel only With 2 x 1100 lb drop tanks	300	-	Guns fixed forward A-23mm B&C-23mm-30mm D-30mm-30mm plus external load 2 x 55mm FFAR 2 x 55mm missile 2 x 55mm opt. ea. with 8 55mm E. 4 beam riders AAM	Lead pursuit single gyro computing sight A-23mm C&D-23mm B&C-23mm A, C&D range only radar B&C all- weather se- ch/track r.	6-channel VHF RDE-4, IFF Marker Beacon Receiver Radio Compass AM/FM, Radio altimeter A, C&D SCAN SRD (SRD) E SCAN A SCAN
	3,950	2,200	6,150	17,400	7.2/40,000	53,800	742/25,000	505/41,750		520	-			

Note 565 knots IAS limit with rocket pods.

SCAN ODD and SCAN VIX characteristics same as shown for FRESKO.

SCAN CAN AI suitable for stern chase only, has search capability of about 8 n.m.,

automatic track capability of about 3.2 n.m., furnishes guidance for beam rider missile.

Slight reduction
of range

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BOMBERS

Aircraft and Engines	Bomb Weight lb.	All-up Weight lb.	Initial Cruise Alt. ft.	Target alt. ft.	Final Cruise Alt. ft.	Speed at Target Max Cruise Kts	Radius of Action NM	Weapons 2/	Fire Control	Bombing System	Electronics
BURE (SU-4) Four ASH-90 2,200 BHP air cooled radials.	20,000	140,000	-	25,000	-	350	216	High altitude Bomber Mission	Central fire control system for upper and lower barbettes. Tail turret may be locked into the system.	Norden type optical bomb- sight. Radar bombing system.	Twin 4-channel VHF, HF(W/T) Radio compass, Radio Altimeter, Marker Beacon receiver, ILS, MUSHROOM radar. gun/ranging/ tail-walking radar-BME
(Remarks: Now used mainly for transport and training purposes.)											
BEAGLE 1/ (IL-28) Two VK-1 5,940 lb SST centrifugal turbo-jets.	5,600	51,100	36,500	38,800	44,200	435	385	High altitude bomber mission	Pilot and tail turret-optical lead computing gyro gun- sights.	Norden type bombsight with electro-mecha- nical computer for coordinated optical radar bombing.	4-channel VHF, (probably twin installation), IFF, Marker Beacon receiver, Radio compass, Radio altimeter (High and low) HF(W/T), MUSH- ROOM radar, DME, ILS SIRENA. Pro- bably SHOREWALK bombing in some aircraft.
	-	50,000		35,000		435	385	High altitude Reconnaissance Mission	Same except one nose gun removed.	Same as above	
*(Remarks: With two 1,450 lb tip tanks fitted.)											

1/Note: These are currently held Beagle figures; however, they are being recomputed by FTD, based on data obtained from a Soviet manual on this aircraft.

2/Only the underlined numbers in this column represent changes.

* These now would be reduced by about 20% if the aft were up & from the forward in - el fields (Khasa + Nag Zg)

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B-2 (BU-2) Two A ₁ h 82 PW 1825 BHP Air Cooled radial engines.	3,300	24,500	-	10,000	-	260	180	Constant Altitude Cruise bomb- mission	440	2 x 20 mm in wing roots, 1 x 12.7mm Flex M9 rear cockpit. 1 x 12.7 mm upper gun position. 1 x 12.7 mm lower gunner position.	Optical gunsight	Optical	VHF-IFF Radio Compass
BADGER (BU-16) Two RD3N Axial Flow turbojets 20,900 lbs. SBT each.	10,000	170,000	37,600	42,300	50,500	495	465	High alti- tude bomber mission	1800	One fixed forward 23 mm gun. Turrets: Tail, upper forward and lower aft. Two 23 mm guns each.	Tail Turret equipped with automatic search/track fire control radar.	MUSHROOM bomb/nav. radar.	VHF, HF, radio compass, radio altimeter marker beacon receiver, ILS, DME, MOON, IFF, Tail warning radars.

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Performance of C.C.A.F./C.C.N.A.F. Aircraft

GROUND ATTACK

Engine and Propellers	Wing Area sq. ft.	Fuel Weight			Maximum Speed at Reference Height Kts/Ft	Sortie description	Basic Performance Data		Weapons	Fire Control	Electronics
		External lb.	Total lb.	All-up Weight lb.			(Internal Fuel) Combat Radius NM	(External Fuel) Combat Radius NM			
DEAT (MIG-15) 42 BHP liquid cooled in line	1,165	-	2,165	14,700	265/SL 280/6,500	Basic ground attack mission.	165	-	Fixed forward 2-23 mm and 2 x 7.62 mm, Flexible rear 1 x 12.7 mm. Bomb load max. 1,320 lb. or optional 6 x 132 mm un- guided air-to-air rockets.	Optical gyro gun sight.	NIF, IFF, Radio compass
FAGOT (MIG-15) One VK-1 540 lb S.T. Centrifugal flow turbo- jet.	2,500	-	2,500	12,100	458/SL	High level out and back with 2 minutes combat at SL	200*	150	Guns: 2 x 23 and 1 x 37 mm, duration of fire 6 secs. each; Bombs: 2 x 550 lb. under wings in lieu of drop tanks.	Optical lead pursuit gyro gun- sight.	Same as for interceptor.
	2,500	1,400	3,900	12,600	583/SL						
	2,500	-	2,500	12,100	485/SL	High level out and back with 5 minutes combat at SL	100*	360			
	2,500	1,400	3,900	12,600	583/SL						
	2,500	-	2,500	12,100	485/SL	Low level out and back no combat.	75*	115			
	2,500	1,400	3,900	12,600	583/SL						
	2,500	-	2,500	12,100	485/SL	Low level out, high level back, 100*					

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USAF PROPOSED ADDITION

FRESKO C	2,500	1,400	3,900	13,400	570/SL	High level out and back with 5 minutes combat at SL	60*	325	Guns: Fixed Forward 1-37 mm 2-23 mm	Same as for interceptor	Same as for interceptor
	2,500		2,500	12,880	485/SL						
FARMER C&D	3,950	2,200	6,150	19,475	565/SL	High level out and back with 5 minutes combat at SL	170*	415	2-210 mm rockets Guns same as for interceptor 2-550 lb bombs	Same as for interceptor	Same as for interceptor
	3,950		3,950	17,900	485/SL						

* With 2 x 550 lb. bombs (Speed restricted to
485 knots IAS. when carry bombs)

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BEAGLE

TAKE-OFF CONDITION: T-O WT 48,900 LBS.

TEMP, DEG C	ALT/6,000 FT	ALT/10,000 FT	ALT/14,000 FT
40	4910	---	---
15	3920	4680	---
0	3220	4000	4650
-20	2600	3240	3775
-40	2150	2660	3070

TAKE-OFF CONDITION: T-O WT 51,000 LBS.

TEMP, DEG C	ALT/6,000 FT	ALT/10,000 FT	ALT/14,000 FT
40	5450	---	---
15	4130	5110	---
0	3660	4370	---
-20	2980	3660	4250
-40	2350	2980	3410

LANDING CONDITION: LANDING WT 30,000 LBS.

TEMP, DEG C	ALT/6,000 FT	ALT/10,000 FT	ALT/14,000 FT
40	2650	3120	3710
15	2350	2780	3290
0	2190	2580	3050
-20	1980	2330	2750
-40	1780	2560	2470

LANDING CONDITION: LANDING WT 33,000 LBS.

TEMP, DEG C	ALT/6,000 FT	ALT/10,000 FT	ALT/14,000 FT
40	2910	3440	---
15	2590	3050	3620
0	2410	2840	3360
-20	2170	3090	3030
-40	1950	2300	2710

*Where distances are not specified, speed exceeds tire speed capability.